

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Martin FUENFGELD
Josef FEHRENBACH
Karl GRIESSBAUM

Serial No. NOT YET ASSIGNED

Filed: November 14, 2001

For: **TRANSCIEVER UNIT WITH INTERFERENCE-REDUCING ANTENNA**

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examining on the merits and calculating the filing fee for the application filed herewith, please enter the following amendments:

IN THE SPECIFICATION:

Please amend the specification by adding the new sentence after the title and before the first paragraph, as indicated per Attachment A.

IN THE CLAIMS:

Please amend claims 5, 6, 7, 8 and 9 per Attachment A, and shown with changes made, per Attachment B, with this preliminary amendment.


REMARKS

The amendment to the specification has been made to reference the earlier provisional application filed March 6, 2001 from which present nonprovisional application claims benefit as allowed under 35 U.S.C. 119(e).

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No new matter has been added by the above amendments. Pursuant to the new rules implementing the AIPA, a clean copy of the added sentence to the specification and of the amended claims is attached, Attachment A, along with a marked-up copy of the claims, Attachment B, to show changes made.

NATH & ASSOCIATES PLLC


Gary M. Nath
Registration No. 26,965
Jerald L. Meyer
Registration No. 41,194
Customer No. 20529

Date: November 14, 2001
NATH & ASSOCIATES PLLC
1030th Street, NW - 6th Floor
Washington, D.C. 20005
GMN/JLM/dd:AMENDpremlfromprov24564.AIPA

ATTACHMENT A – CLEAN COPY

In the specification:

On page 1, after the title and before the first paragraph, please add the following new sentence:

-- This application is a nonprovisional of U.S. provisional application no. 60/273,328 file March 6, 2001.--

In the Claims

5. (amended) Transceiver unit, as defined in claim 1, wherein said unit comprises a power splitter (4) for distributing the sampled signals with respective equal power to the acquisition antenna (5) and the antenna simulation (6).

6. (amended) Transceiver unit, as defined in Claim 2, wherein said unit comprises a power splitter (4) for distributing the sampled signal to the acquisition antenna (5) and the antenna simulation (6), which feeds a smaller part of the power of the sampled signal to the antenna simulation (6) then to the acquisition antenna (5), and in which the simulation (6) has a higher reflectivity than the acquisition antenna (5).

7. (amended) Transceiver unit, as defined in claim 1, wherein said unit supplies the correction signal as a 180° phase quadrature to the unwanted echo signal.

8. (amended) Transceiver unit, as defined in claim 1, wherein the echo signal is a radio signal and wherein between the acquisition antenna (5) and the coupler (15) or between the simulation (6) and the coupler (15) respectively a mixer (13a, 13b) is placed for converting the echo signal or correction signal on an intermediate frequency.

9. Transceiver unit, as defined in claim 1, wherein the coupler (3) comprises a waveguide ring with four connections (16a, 16b, 16c, 16d), which respectively are connected through waveguide sections (17a, 17b, 18a, 18d) the lengths of which respectively correspond to one-quarter of the wavelength of the sampled signal, characterized in that the acquisition antenna (5) and the simulation (6) are connected to the adjacent connections (16b, 16c), and in that the transmitter (1) and receiver (2) jointly are connected to a connection (16b, 16c) of the acquisition antenna (5) or the simulation (6) of the adjacent connection (16a).

ATTACHMENT B – MARKED-UP COPY

Claims

5. (amended) Transceiver unit, as defined in [one of the aforesaid claims] claim 1, wherein said unit comprises a power splitter (4) for distributing the sampled signals with respective equal power to the acquisition antenna (5) and the antenna simulation (6).

6. (amended) Transceiver unit, as defined in Claim 2 [or 4], wherein said unit comprises a power splitter (4) for distributing the sampled signal to the acquisition antenna (5) and the antenna simulation (6), which feeds a smaller part of the power of the sampled signal to the antenna simulation (6) then to the acquisition antenna (5), and in which the simulation (6) has a higher reflectivity than the acquisition antenna (5).

7. (amended) Transceiver unit, as defined in [one of the aforesaid claims] claim 1, wherein said unit supplies the correction signal as a 180° phase quadrature to the unwanted echo signal.

8. (amended) Transceiver unit, as defined in [one of the aforesaid claims] claim 1, wherein the echo signal is a radio signal and wherein between the acquisition antenna (5) and the coupler (15) or between the simulation (6) and the coupler (15) respectively a mixer (13a, 13b) is placed for converting the echo signal or correction signal on an intermediate frequency.

9. Transceiver unit, as defined in [one of the aforesaid claims] claim 1, wherein the coupler (3) comprises a waveguide ring with four connections (16a, 16b, 16c, 16d),

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which respectively are connected through waveguide sections (17a, 17b, 18a, 18d) the lengths of which respectively correspond to one-quarter of the wavelength of the sampled signal, characterized in that the acquisition antenna (5) and the simulation (6) are connected to the adjacent connections (16b, 16c), and in that the transmitter (1) and receiver (2) jointly are connected to a connection (16b, 16c) of the acquisition antenna (5) or the simulation (6) of the adjacent connection (16a).

For filing only